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- (S) Plasma etching apparatus.
- (a) A plasma etching apparatus comprising a susceptor (12, 14) for holding a semiconductive wafer, a cooling jacket (20) having a coolant (21) of a large cooling capacity and capable of quickly cooling said susceptor (12, 14) to an intended low temperature, a process chamber (10a) enclosing the susceptor (12, 14) and the cooling jacket (20), a gas discharging mechanism (34, 36) for evacuating the process chamber (10a), an insulating member (16) inter-

posed between the susceptor (12, 14) and the cooling jacket (20), a gas supply device (71, 80) for supplying gas to an O-ring holding groove (51, 53, 55) arranged on the interface regions (59) of the susceptor (12, 14), the insulating member (16) and the cooling section (20) and a pressure control mechanism (70) for controlling the pressure of the supplied gas.

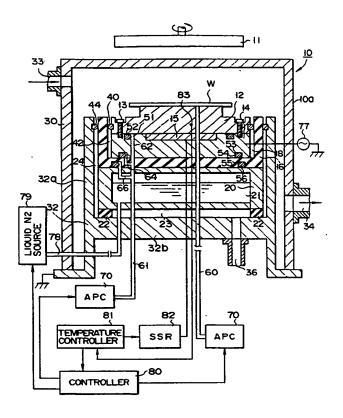


FIG.



EUROPEAN SEARCH REPORT

Application Number

EP 91 12 0423

Category	Citation of document with indicate of relevant passage		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL5)
A	DATABASE WPIL Week 8949, Derwent Publications I AN 89-359386 & JP-A-1 268 030 (HITA * abstract * & US-A-5 085 750 (SORA * column 3, line 19 - figure 1 *	Ltd., London, GB; ACHI)	1,2	H01J37/32 H01L21/00
A	EP-A-0.339 580 (APPLI * column 16, line 9 - figure 7 *	ED MATERIALS INC) column 18, line 5;	1	
				TECHNICAL FIELDS SEARCHED (Int. Cl.5)
				H01L H01J
			_	
	The present search report has been		<u> </u>	
	Place of search	Date of completion of the search 28 SEPTEMBER 1992		BOLDER G.
Y:p	THE HAGUE CATEGORY OF CITED DOCUMENT articularly relevant if taken alone articularly relevant if combined with anoth ocument of the same category echnological background con-written disclosure attermediate document	T: theory or principle underlying the E: earlier patent document, but pure after the filing date D: document died in the application to document died for other reason. A: member of the same patent fan document		the invention ublished on, or tion us